

SEQUENCE LISTING

<110> TAKARA BIO INC.  
<120> Composition for suppressing human Flt-3 function  
<130> 04-062-PCTJP  
<150> JP2003-350253  
<151> 2003-10-09  
<160> 40  
<170> PatentIn version 3.3  
<210> 1  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> A partial cDNA sequence of ATP-binding site.  
<400> 1  
aaggtagtag gatcaggtgc t 21  
  
<210> 2  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Designated as SEQ1-S. "nucleotides 20 and 21 are  
deoxyribonucleotides - other nucleotides are ribonucleotides."  
<400> 2  
gguacuagga ucaggugcut t 21  
  
<210> 3  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Designated as SEQ1-AS. "nucleotides 20 and 21 are  
deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 3  
agcaccugau ccuaguacct t

21

<210> 4  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> A partial cDNA sequence of TK domain.

<400> 4  
aacaggagtc tcaatccagg t

21

<210> 5  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Designated as SEQ2-S. "nucleotides 20 and 21 are  
deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 5  
caggagucuc aauccaggut t

21

<210> 6  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Designated as SEQ2-AS. "nucleotides 20 and 21 are  
deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 6  
accuggauug agacuccugt t

21

<210> 7  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>

<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 7

aatatgaata tgatctcaaa t

21

<210> 8

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designated as SEQ3-S. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 8

uaugaauaug aucucaaaut t

21

<210> 9

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designated as SEQ3-AS. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 9

auuugagauc auaucauat t

21

<210> 10

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> A partial cDNA sequence of bcr/abl chimera domain.

<400> 10

aagcagagtt caaaagcccu u

21

<210> 11

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 11

gcagaguuca aaagcccuut t

21

<210> 12

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 12

aagggcuuuu gaacucugct t

21

<210> 13

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer FLT11F for amplifying a gene encoding FLT3.

<400> 13

gcaatttagg tatgaaagcc agc

23

<210> 14

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer FLT12R for amplifying a gene encoding FLT3.

<400> 14

ctttcagcat tttgaaggca acc

23

<210> 15

<211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> PCR primer G1 for amplifying a gene encoding GAPDH.

<400> 15  
 caacagcctc aagatcatca gc

22

<210> 16  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> PCR primer G2 for amplifying a gene encoding GAPDH.

<400> 16  
 ttctagacgg caggtcaggt c

21

<210> 17  
 <211> 64  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Expression cassette FLT3SI1F for expressing siRNA for ATP-binding domain. "the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator

<400> 17  
 gatcccggtc ctaggatcag gtgctttcaa gagaagcacc tgatcctagt accttttttg 60  
 gaaa 64

<210> 18  
 <211> 64  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Expression cassette FLT3SI1R for expressing siRNA for ATP-binding

domain. "the region of nucleotides 1 to 5 is HindIII restriction site - the region of nucleotides 10 to 15 is RNA polymerase III terminator site - the region of nucleotides 35 to 43 is loop

<400> 18  
agcttttcca aaaaaggtac taggatcagg tgcttctctt gaaagcacct gatcctagta 60  
ccgg 64

<210> 19  
<211> 64  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Expression cassette FLT3CON1F for expressing control sequence.  
"the region of nucleotides 1 to 5 is BamHI restriction site - the  
region of nucleotides 26 to 34 is loop site - the region of  
nucleotides 54 to 59 is RNA polymerase III terminator site"

<400> 19  
gatccggag tcgtagctgc agtatttcaa gagaatactg cagctacgac tccttttttg 60  
gaaa 64

<210> 20  
<211> 64  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Expression cassette FLT3CON1R for expressing control sequence.  
"the region of nucleotides 1 to 5 is HindIII restriction site -  
the region of nucleotides 10 to 15 is RNA polymerase III  
terminator site - the region of nucleotides 35 to 43 is loop

<400> 20  
agcttttcca aaaaaggagt cgtagctgca gtattctctt gaaatactgc agctacgact 60  
ccgg 64

<210> 21  
<211> 64

<212> DNA  
 <213> Artificial Sequence

<220>

<223> Expression cassette FLT3SI3F for expressing siRNA for FLT3/ITD domain. "the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator

<400> 21  
 gatccctatg aatatgatct caaatttcaa gagaatttga gatcatatto atatTTTTTg 60  
 gaaa 64

<210> 22  
 <211> 64  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Expression cassette FLT3SI3R for expressing siRNA for FLT3/ITD domain. "the region of nucleotides 1 to 5 is HindIII restriction site - the region of nucleotides 10 to 15 is RNA polymerase III terminator site - the region of nucleotides 35 to 43 is loop

<400> 22  
 agcttttcca aaaaatatga atatatctct aaattctctt gaaatttgag atcatattca 60  
 tagg 64

<210> 23  
 <211> 64  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Expression cassette FLT3CON3F for expressing control sequence. "the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator site"

<400> 23  
 gatcccaata atttgcttca aagatttcaa gagaatcttt gaagcaaatt atTTTTTTg 60

gaaa

64

&lt;210&gt; 24

&lt;211&gt; 64

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Expression cassette FLT3CON3R for expressing control sequence.  
 "the region of nucleotides 1 to 5 is HindIII restriction site -  
 the region of nucleotides 10 to 15 is RNA polymerase III  
 terminator site - the region of nucleotides 35 to 43 is loop

&lt;400&gt; 24

agcttttcca aaaaaataa ttgtttcaa agattctctt gaaatctttg aagcaaatta 60

ttgg

64

&lt;210&gt; 25

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; 5' sequencing primer.

&lt;400&gt; 25

taatacgact cactataggg

20

&lt;210&gt; 26

&lt;211&gt; 18

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; 3' sequencing primer.

&lt;400&gt; 26

aggcgattaa gttgggta

18

&lt;210&gt; 27

&lt;211&gt; 144

&lt;212&gt; DNA



<213> Artificial Sequence

<220>

<223> Juxtamembrane domain.

<400> 27

tgtcacaagt acaaaaagca atttaggtat gaaagccagc tacagatggt acaggtgacc 60

ggctcctcag ataatgagta cttctacgtt gatttcagag aatatgaata tgatctcaaa 120

tgggagtttc caagagaaaa tttt 144

<210> 28

<211> 471

<212> DNA

<213> Artificial Sequence

<220>

<223> Tyrosine kinase domain.

<400> 28

acgcaacagc ttatggaatt agcaaaacag gagtctcaat ccaggttgcc gtcaaaatgc 60

tgaagaaaa agcagacagc tctgaaagag aggcactcat gtcagaacto aagatgatga 120

cccagctggg aagccacgag aatattgtga acctgctggg ggogtgcaca ctgtcaggac 180

caatttactt gatttttgaa tactgttgct atggtgatct tctcaactat ctaagaagta 240

aaagagaaaa atttcacagg acttgacag agattttcaa ggaacacaat ttcagttttt 300

acccacttt ccaatcacat ccaaattcca gcatgcctgg ttcaagagaa gttcagatac 360

acccggactc ggatcaaato tcagggttc atgggaatto atttactct gaagatgaaa 420

ttgaatatga aaaccaaaaa aggttggaag aagaggagga cttgaatgtg c 471

<210> 29

<211> 517

<212> DNA

<213> Artificial Sequence

<220>

<223> ATP-binding domain.

<400> 29

gagtttggga aggtactagg atcaggtgct tttggaaaag tgatgaacgc aacagcttat 60  
 ggaattagca aaacaggagt ctcaatccag gttgccgtca aaatgctgaa agaaaaagca 120  
 gacagctctg aaagagaggc actcatgtca gaactcaaga tgatgaccca gctgggaago 180  
 cacgagaata ttgtgaacct gctgggggcg tgcacactgt caggaccaat ttacttgatt 240  
 tttgaatact gttgtatgg tgatotttct aactatctaa gaagtaaaag agaaaaattt 300  
 cacaggactt ggacagagat tttcaaggaa cacaatttca gtttttacct cactttccaa 360  
 tcacatccaa attccagcat gcttggttca agagaagttc agatacacco ggactoggat 420  
 caaatctcag gcttctcatg gaattcattt cactctgaag atgaaattga atatgaaaac 480  
 caaaaaaggc tggaagaaga ggaggacttg aatgtgc 517

<210> 30  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>

<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 30

gguauguac aggaagcat t

21

<210> 31  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>

<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 31

ugcguuccug uacauaacct t

21

<210> 32  
 <211> 19  
 <212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of ATP-binding domain.

<400> 32

ggtactagga tcaggtgct

19

<210> 33

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 33

gguacuagga ucaggugcu

19

<210> 34

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 34

agcaccugau ccuaguacc

19

<210> 35

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of TK domain.

<400> 35

caggagtctc aatccaggt

19

<210> 36

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 36

caggagucuc aauccaggu

19

<210> 37

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 37

accuggauug agacuccug

19

<210> 38

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 38

tatgaatatg atctcaa

19

<210> 39

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 39

uaugaauaug aucucaa

19

<210> 40

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 40

auuugagauc auauucaua